

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-5 (Cancelled).

6. (Previously Presented) A reaction probe chip for binding an analyte to be detected, comprising:

a plurality of stacked organic substrates each in the form of a flexible film or sheet, each having a plurality of discrete through-holes, said substrates being stacked so that said through-holes are aligned;

a carrier filled in the plurality of discrete through-holes, said carrier being relatively porous compared with said substrates; and

probe molecules attached to a surface of the carrier for binding the analyte to be detected,

wherein the probe molecules attached to the surface of the carrier in a first group of the through-holes are different from the probe molecules attached to the surface of the carrier in a second group of the through-holes.

7. (Previously Presented) A reaction probe chip according to claim 6, wherein the carrier is a powder of porous glass.

Claims 8 and 9 (Cancelled).

10. (Previously Presented) A reaction probe chip according to claim 6 wherein the probe molecule is selected from the group consisting of DNA, RNA, PNA, their fragments, oligonucleotides, antigens, antibodies, epitopes, enzymes, proteins, and their polypeptide chains having at least one functional site.

11. (Previously Presented) A reaction probe chip according to claim 6, wherein contacting surfaces of said stacked substrates are smoothed whereby aligned respective through-holes of adjacent substrates are liquid-tight so that liquid will not move laterally between said contacting surfaces to reach spaced apart through-holes.

12. (Previously Presented) The reaction probe chip of claim 6, wherein each of said plurality of stacked organic substrates comprises a pair of plastic films heat sealed together, said carrier comprises a filter paper sandwiched between said pair of plastic films heat sealed together and said plastic films are polyethylene or polyester films.

13. (Previously Presented) The reaction probe chip of claim 12, wherein said filter paper is a glass fiber filter paper and said plastic films comprise polyethylene terephthalate.

14. (Previously Presented) A reaction probe chip of claim 7, wherein said carrier is powder of porous glass having a particle size of from 1 to 100 microns.

15. (New) A reaction probe chip for detecting analytes, comprising:

first carrier made of porous glass having first probe molecules attached to a surface of the first carrier, wherein the first probe molecules are capable of binding to a first analyte;

second carrier made of porous glass having second probe molecules attached to a surface of the second carrier, wherein the second probe molecules are capable of binding to a second analyte; and

a substrate having first and second through-holes, wherein the first and second through-holes are filled with the first and second carriers respectively.